

II.4-RES-SNGL-A-PASSFLOW SINGLE RESERVOIR REGULATION OPERATION
SCHEME PASS INFLOW

Description

Scheme PASSFLOW passes the reservoir inflow directly as the reservoir discharge.

In this section the instantaneous discharge at the end of the time interval is set equal to the instantaneous inflow at the end of the time interval:

$$QO_2 = QI_2$$

The mean discharge is then computed by averaging the instantaneous discharge at the beginning and the end of the time interval:

$$QOM = (QO_1 + QO_2) / 2$$

The storage at the end of the time interval is computed using the continuity equation:

$$V_2 = V_1 + (QIM - QOM) * \Delta t$$

The period ending elevation is that elevation corresponding to the period ending storage within the elevation-storage curve:

$$H_2 = v(V_2)$$

If Scheme PASSFLOW is used alone the outflow always equals to the inflow:

$$QO_1 = QI1$$

$$QO_2 = QI2$$

$$QOM = QIM$$

The pool will be maintained at the same elevation.

Parameters

No parameter are needed.

Time-Series

No time series are needed.

Carryover

No carryover is needed.